

9/17/13

Agenda

- Check in & review Homework p. 50-52
- Quick review of chapter
- Begin review worksheets
- Missing/late work needs to be turned in

- TARGET REVIEW WEDNESDAY 9/18

Test → THURSDAY 9/19

Review for Chapter 1 Test

Topics-

- Verbal to Algebraic
- Algebraic to Verbal
- Order of Operations
- Classification of Real Numbers
- Properties
- Adding/subtracting/multiplying/dividing
- Distributing and Combining Like terms

Verbal to Algebraic

X raised to the fourth power

9 less than a number j

The product of 4 and the sum 3 plus y

$$\begin{array}{r} x^4 \\ \hline j-9 \\ \hline 4(3+y) \end{array}$$

Algebraic to Verbal

$x/8$

X DIV. BY 8

QUOTIENT OF X
AND 8

$p+6$

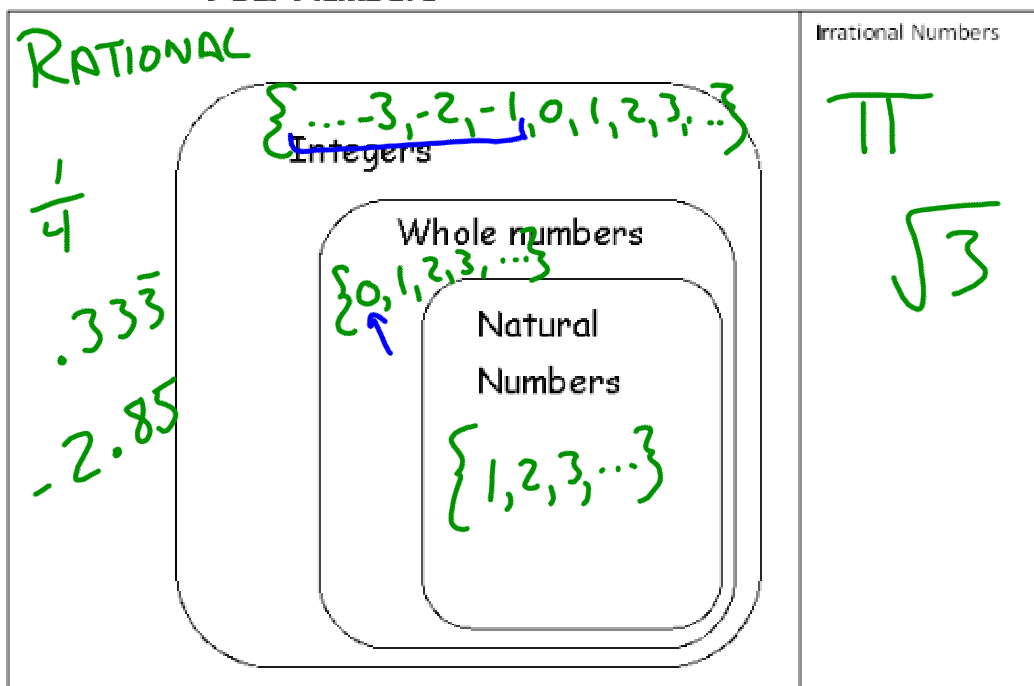
P plus 6

$h-3$

h MINUS 3

P ()
 EXPONENTS \times^2
 MULTIPLY } SAME LEVEL
 DIVIDE } $L \rightarrow R$
 ADD } SAME LEVEL
 SUBTRACT } $L \rightarrow R$

Real Numbers



Commutative Property of Addition

$$a + b = b + a$$

Associative Property of Addition

$$(a + b) + c = a + (b + c)$$

Identity Property of Addition

$$a + 0 = a$$

Inverse Property of Addition

$$a + (-a) = 0$$

Commutative Property of Multiplication

$$a \cdot b = b \cdot a$$

Associative Property of Multiplication

$$(a \cdot b) \cdot c = a \cdot (b \cdot c)$$

Identity Property of Multiplication

$$a \cdot 1 = a$$

Inverse Property of Multiplication

$$a \cdot \left(\frac{1}{a}\right) = 1$$

Zero Property of Multiplication

Multiplying by -1

$$a \cdot -1 = -a$$

$$-a \cdot -1 = a$$

$$a \cdot 0 = 0$$

Subtraction Rule

$$a - b = a + (-b)$$

Pos x Pos = Pos

Neg x Neg = Pos

Neg x Pos = NEG

Pos x Neg = NEG

Keep ^{1st} $\frac{1}{4} \div \frac{3}{2} = \frac{1}{4} * \frac{2}{3} = \frac{2}{12} = \frac{1}{6}$
Change \div to $*$
Flip ^{2nd}

Like terms- $13\underline{a} - 5\underline{a} = 8a$

Distribution- $3(x + 4)$ $3x + 12$

P
E
M
D
AS

$5 + 2(3x + 7) - 12$ $5 + 14 - 12 = 7$

$5 + 6x + 14 - 12$

$6x + 7$